

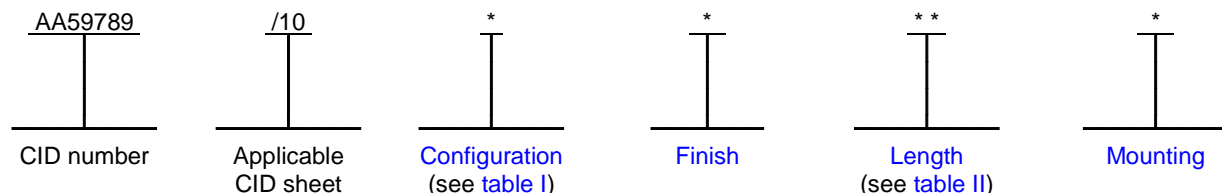
COMMERCIAL ITEM DESCRIPTION  
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,  
.225 X .225 INCH BODY SIZE, SCREW ACTUATED, WITH VISUAL LOCK INDICATION

The General Services Administration has authorized the use of this  
commercial item description for all federal agencies.

The complete requirements for procuring electrical card holders described herein shall consist of this document and  
the latest issue in effect of [A-A-59789](#).

CLASSIFICATION/PART IDENTIFICATION NUMBER (PIN). This commercial item description (CID) specification  
sheet uses a classification system which is included in the PIN as shown in the following example (see [NOTES](#)).



Example: AA59789/10LH50S is the PIN for a hard black anodize finished, 4.8 inch (121.9 mm) long card holder with  
visual lock indication. The card holder also features two tapped mounting holes for use with 2-56 UNC 2B fasteners  
and a screw self-locking element for added resistance to loosening.

SALIENT CHARACTERISTICS.

Performance. Card holders shall hold the circuit card firmly in place providing high resistance to shock and vibration  
while providing maximum thermal transfer.

Interface and physical dimensions. The card holders supplied to this CID specification sheet shall be as specified  
herein and meet the general requirements specified in CID [A-A-59789](#).

Material. Unless otherwise specified herein, the card holder materials shall be as specified in [A-A-59789](#).

Actuating screw hex drive socket. The dimension for hex drive socket shall be .094 inch (2.38 mm) across flats for  
mounting options "M", "R", "S", "T", and "U".

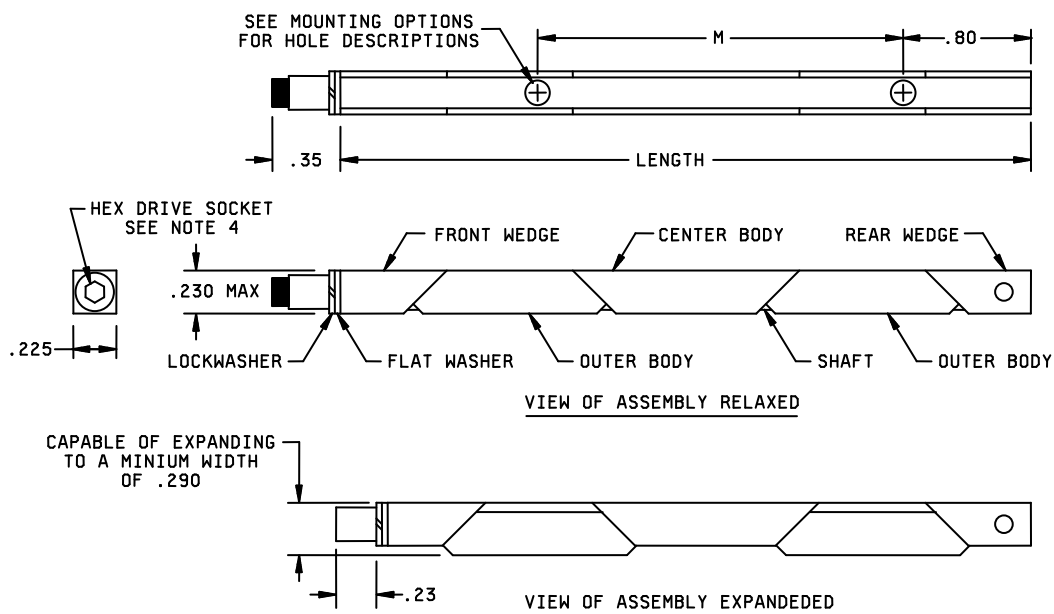
Cold plate slot width. The recommend cold plate slot width to accommodate the circuit card assembly with attached  
card holder is .250 inch (6.35 mm) plus the thickness of the printed board of the circuit card assembly (see  
[A-A-59789](#)).

Installation torque. The recommended nominal installation torque is follows: 6 inch-pounds (0.7 N-m) for card  
holders of configuration "C" or "E" and 7 to 8 inch-pounds (0.8 to 0.9 N-m) for assemblies of configurations "L" or "D".

Configuration. The configuration of a card holder shall be as specified in [table I](#). The details of a particular  
configuration consist of those on figure [1](#) and [2](#), and may include those on figures [3](#) and [4](#).

TABLE I. Configurations.

| Configuration | Applicable figures | Hardware options  |
|---------------|--------------------|---|
| C             | 1 and 2            | No added options  |
| L             | 1, 2, and 3        | Screw self-locking element                              |
| E             | 1, 2, and 4        | Additional mounting hole                                |
| D             | 1, 2, 3, and 4     | Screw self-locking element and additional mounting hole |



| Inches | mm   | Inches | mm   | Inches | mm   | Inches | mm  | Inches | mm   |
|--------|------|--------|------|--------|------|--------|-----|--------|------|
| .225   | 5.71 | .230   | 5.84 | .290   | 7.37 | .35    | 8.9 | .80    | 20.3 |

## NOTES:

1. Dimensions are in inches. Millimeter equivalents are given for general information only.
2. Unless otherwise specified, tolerances are  $\pm 0.02$  inch (0.51 mm) for two place decimals and  $\pm 0.010$  inch (0.25 mm) for three place decimals.
3. Tolerance for the hole spacing is  $\pm 0.005$  inch (0.51 mm).
4. The across flats dimension for hex drive socket shall be .094 inch (2.38 mm).

FIGURE 1. Relaxed and expanded dimensions.

**Finish.** The finish designator shall be as specified in [A-A-59789](#). The finishes available for this CID specification sheet are as follows: "B" (black anodize), "C" (gold chemical film), "E" (electroless nickel), or "H" (hard black anodize).

**Length, expanded, and relaxed dimensions.** The length designator shall be as specified in [A-A-59789](#) and the lengths available for this CID specification sheet are listed in [table II](#). The length, expanded, and relaxed dimensions shall be as specified on [figure 1](#).

**Visual lock indicator (see figure 2).** Card holders shall have a visual indicator to show when the card holder is in its relaxed state (unlocked). When the card holder is in the relaxed state (unlocked), the end of the actuating screw shall display a red band on the side of the screw. When the actuating screw on the card holder has been tightened so that the assembly is in the expanded state (locked), this red band shall be concealed.

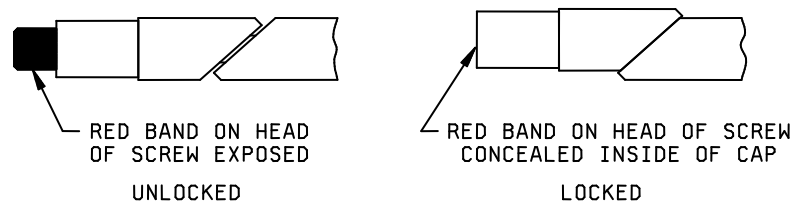


FIGURE 2. Visual lock indicator.

TABLE II. Additional card holder dimensions (see figure 1). 1/

| PIN length designator | Dimension "Length"<br>± .02 (0.5) | Dimension "M"<br>± .01 (0.3) | Dimension "M/2"<br>± .02 (0.5) |
|-----------------------|-----------------------------------|------------------------------|--------------------------------|
| 30                    | 2.80 (71.1)                       | .90 (22.9)                   | .45 (11.4)                     |
| 40                    | 3.80 (96.5)                       | 1.90 (48.3)                  | .95 (24.1)                     |
| 50                    | 4.80 (121.9)                      | 2.90 (73.7)                  | 1.45 (36.8)                    |

1/ Dimensions are in inches. Millimeters, in parenthesis, are given for information only.

**Mounting.** The mounting designators shall be as specified in [A-A-59789](#). The mounting options available for this CID specification sheet are as follows: "M" (tapped metric M2.5 x 0.45 holes), "R" (rivet mount holes with counterbore and countersink), "S" (tapped 2-56 holes), "T" (tapped 0-80 holes), or "U" (tapped metric M2 x 0.4 holes). See [figure 1](#) for mounting hole spacing requirements.

**Rivet mounting holes.** The holes used for rivet mounting shall be .068/.073 inch (1.73/1.85 mm) diameter, countersunk 100 degrees by .060 inch (1.52 mm) deep.

**Rivets.** This card holder uses rivet type A as specified in [A-A-59789](#) when rivet mounting is used.

**Hardware options.** Card holders can have the following hardware options: no hardware options added, screw self lock element (see [figure 3](#)), additional mounting hole (see [figure 4](#)) or screw self lock element and additional mounting hole. See [table I](#) for the correct PIN configuration identifier for the hardware option needed.

Screw self-locking element (see figure 3). The use of a screw self-locking element will provide prevailing torque for resistance to loosening from shock vibration. Card holders requiring a screw self-locking element shall include configuration identifier "L" in the PIN (see table I).

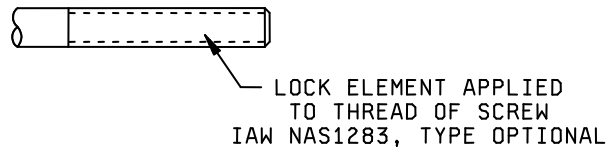


FIGURE 3. Screw self-locking element details.

Additional mounting hole (see figure 4). Card holders requiring an additional mounting hole shall include configuration identifier "E" in the PIN (see table I).

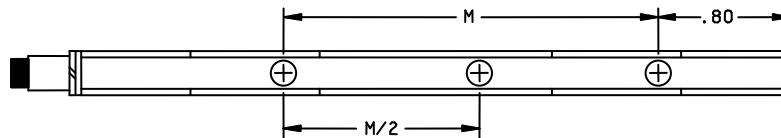


FIGURE 4. Additional mounting hole details.

Screw self-locking element and additional mounting hole. Card holders requiring a screw self-locking element and an additional mounting hole option shall include configuration identifier "D" in the PIN (see table I).

#### NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID specification sheet. See the classification section for PIN format example.

#### Source of documents.

##### Commercial Item Description

A-A-59789 – Holder, Electrical Card, Wedge Retainers, 5 Piece, For Cold Plate Applications, General Requirements For.

(Copies of these documents are available online at <http://assist.daps.dla.mil/quicksearch/> or <http://assist.daps.dla.mil/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

##### Other Publications

##### AEROSPACE INDUSTRIES ASSOCIATION (AIA)

AIA/NAS 1283 – Fasteners, Male Threaded, Self-locking.

(Application for copies should be addressed to the Aerospace Industries Association, 1250 Eye Street, NW, Suite 1200, Washington, DC 20005-3924 or at URL: <http://www.aia-aerospace.org>.)

Ordering data. Ordering data is as specified in A-A-59789.

Commercial products. As part of the market analysis and research effort, this CID specification sheet was coordinated with the following manufacturers of commercial products. At the time of CID specification sheet preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID specification sheet. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

| <u>Manufacturer CAGE</u> | <u>Manufacturer name and address</u>  | <u>Manufacturer contact information</u>   |
|--------------------------|---|---|
| 5BG68                    | Card Locks Unlimited, Inc.<br>2310 E. Orangethorpe Avenue<br>Anaheim, CA 92806-1231 | Telephone: (714) 738-6194<br>Facsimile: (714) 446-0119<br>E-mail: <a href="mailto:sales@clumfg.com">sales@clumfg.com</a><br>URL: <a href="http://www.clumfg.com">www.clumfg.com</a> |

Part number supersession data. This CID specification sheet PINs supersedes the following manufacturer's part numbers as shown in table III. The CID PINs listed in table III are only for length designator "50". See [table IV](#) for CID PIN construction using other available lengths for this CID specification sheet. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE III. Commercial part number supersession data.

| PIN designator<br>AA59789/10 | Vendor similar designator<br>or type part number <u>1</u> /<br>CAGE 5BG68 | PIN designator<br>AA59789/10 | Vendor similar designator<br>or type part number <u>1</u> /<br>CAGE 5BG68 |
|------------------------------|---|------------------------------|---|
| CB50M                        | 5265VBA-4.80TM2.5   | CC50M                        | 5265VCG-4.80TM2.5   |
| CB50R                        | 5265VBA-4.80H   | CC50R                        | 5265VCG-4.80H   |
| CB50S                        | 5265VBA-4.80T2  | CC50S                        | 5265VCG-4.80T2  |
| CB50T                        | 5265VBA-4.80T0  | CC50T                        | 5265VCG-4.80T0  |
| CB50U                        | 5265VBA-4.80TM2   | CC50U                        | 5265VCG-4.80TM2   |
| CE50M                        | 5265VEN-4.80TM2.5   | CH50M                        | 5265VBH-4.80TM2.5   |
| CE50R                        | 5265VEN-4.80H   | CH50R                        | 5265VBH-4.80H   |
| CE50S                        | 5265VEN-4.80T2  | CH50S                        | 5265VBH-4.80T2  |
| CE50T                        | 5265VEN-4.80T0  | CH50T                        | 5265VBH-4.80T0  |
| CE50U                        | 5265VEN-4.80TM2   | CH50U                        | 5265VBH-4.80TM2   |
| LB50M                        | 5265VBA-4.80TM2.5L  | LC50M                        | 5265VCG-4.80TM2.5L  |
| LB50R                        | 5265VBA-4.80HL  | LC50R                        | 5265VCG-4.80HL  |
| LB50S                        | 5265VBA-4.80T2L   | LC50S                        | 5265VCG-4.80T2L   |
| LB50T                        | 5265VBA-4.80T0L   | LC50T                        | 5265VCG-4.80T0L   |
| LB50U                        | 5265VBA-4.80TM2L  | LC50U                        | 5265VCG-4.80TM2L  |

See footnotes at end of table.

TABLE III. Commercial part number supersession data – Continued.

| PIN designator<br>AA59789/10 | Vendor similar designator<br>or type part number <sup>1/</sup><br>CAGE 5GB68 | PIN designator<br>AA59789/10 | Vendor similar designator<br>or type part number <sup>1/</sup><br>CAGE 5GB68 |
|------------------------------|--|------------------------------|--|
| LE50M                        | 5265VEN-4.80TM2.5L   | LH50M                        | 5265VBH-4.80TM2.5L   |
| LE50R                        | 5265VEN-4.80HL   | LH50R                        | 5265VBH-4.80HL   |
| LE50S                        | 5265VEN-4.80T2L  | LH50S                        | 5265VBH-4.80T2L  |
| LE50T                        | 5265VEN-4.80T0L  | LH50T                        | 5265VBH-4.80T0L  |
| LE50U                        | 5265VEN-4.80TM2L   | LH50U                        | 5265VBH-4.80TM2L   |
| EB50M                        | 5265VBA-4.80ETM2.5   | EC50M                        | 5265VCG-4.80ETM2.5   |
| EB50R                        | 5265VBA-4.80EH   | EC50R                        | 5265VCG-4.80EH   |
| EB50S                        | 5265VBA-4.80ET2  | EC50S                        | 5265VCG-4.80ET2  |
| EB50T                        | 5265VBA-4.80ET0  | EC50T                        | 5265VCG-4.80ET0  |
| EB50U                        | 5265VBA-4.80ETM2   | EC50U                        | 5265VCG-4.80ETM2   |
| EE50M                        | 5265VEN-4.80ETM2.5   | EH50M                        | 5265VBH-4.80ETM2.5   |
| EE50R                        | 5265VEN-4.80EH   | EH50R                        | 5265VBH-4.80EH   |
| EE50S                        | 5265VEN-4.80ET2  | EH50S                        | 5265VBH-4.80ET2  |
| EE50T                        | 5265VEN-4.80ET0  | EH50T                        | 5265VBH-4.80ET0  |
| EE50U                        | 5265VEN-4.80ETM2   | EH50U                        | 5265VBH-4.80ETM2   |
| DB50M                        | 5265VBA-4.80ETM2.5L  | DC50M                        | 5265VCG-4.80ETM2.5L  |
| DB50S                        | 5265VBA-4.80EHL  | DC50S                        | 5265VCG-4.80EHL  |
| DB50R                        | 5265VBA-4.80ET2L   | DC50R                        | 5265VCG-4.80ET2L   |
| DB50T                        | 5265VBA-4.80ET0L   | DC50T                        | 5265VCG-4.80ET0L   |
| DB50U                        | 5265VBA-4.80ETM2L  | DC50U                        | 5265VCG-4.80ETM2L  |
| DE50M                        | 5265VEN-4.80ETM2.5L  | DH50M                        | 5265VBH-4.80ETM2.5L  |
| DE50S                        | 5265VEN-4.80EHL  | DH50S                        | 5265VBH-4.80EHL  |
| DE50R                        | 5265VEN-4.80ET2L   | DH50R                        | 5265VBH-4.80ET2L   |
| DE50T                        | 5265VEN-4.80ET0L   | DH50T                        | 5265VBH-4.80ET0L   |
| DE50U                        | 5265VEN-4.80ETM2L  | DH50U                        | 5265VBH-4.80ETM2L  |

<sup>1/</sup> The manufacturer's part number shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph in [A-A-59789](#).

TABLE IV. Example of PIN with available length designators.

| PIN designator<br>AA59789/10 | Vendor similar designator<br>or type part number <u>1/</u> <u>2/</u><br>CAGE 5GB68 |
|------------------------------|--|
| LH30S                        | 5265VBH-2.80T2L  |
| LH40S                        | 5265VBH-3.80T2L  |
| LH50S                        | 5265VBH-4.80T2L  |

- 1/ The manufacturer's part number shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph in [A-A-59789](#).
- 2/ Other lengths are available on request.

## MILITARY INTERESTS:

## Custodians:

Army – CR  
Navy – EC  
Air Force – 85  
DLA – CC

## CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FSS

Preparing activity:  
DLA – CC

Project 5998-2009-044

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.